TABLE OF CONTENTS

DISCLAIMER PAGE	II
ACKNOWLEDGMENTS	III
EXECUTIVE SUMMARY	IV
TABLE OF CONTENTS	X
INTRODUCTION	1
Recovery Unit Designation	1
Geographic Description	2
DISTRIBUTION AND ABUNDANCE	5
Status of Bull Trout at the Time of Listing	5
Current Distribution and Abundance	5
REASONS FOR BULL TROUT DECLINE	14
Dams	14
Forest Management Practices	22
Livestock Grazing	26
Agricultural Practices	28
Mining	29
Residential Development and Urbanization	30
Fisheries Management	30
ONGOING RECOVERY UNIT CONSERVATION MEASURES	34
RELATIONSHIP TO OTHER CONSERVATION EFFORTS	38
State of Washington	39
STRATEGY FOR RECOVERY	42
Recovery Goals and Objectives	43
Recovery Criteria	49

Research Needs	52
Artificial Propagation	54
ACTIONS NEEDED	56
Recovery Measures Narrative	
IMPLEMENTATION SCHEDULE	69
REFERENCES CITED	79
APPENDIX 1: List of Chapters	86

LIST OF FIGURES

Figure 1.	Bull Trout Recovery Units in the United States
Figure 2.	Middle Columbia Recovery Unit (Yakima Core Area)
Figure 3.	Hydrograph for the Yakima River at the Cle Elum gaging station (1981-1999)
Figure 4.	Hydrograph for the Yakima River at the Umtanum gaging station (1981-1999)
Figure 5.	Hydrograph for the Yakima River at the Parker gaging station (1981-1999)
Figure 6.	Hydrograph for the Naches River near Naches, WA (1981-1999)
Figure 7.	Hydrograph for the Cle Elum River in the upper Yakima Basin (represented by the discharge plot on the graph) from 1981-1999.
Figure 8.	Hydrograph for the Tieton River below Yakima-Tieton Irrigation District's headworks from 1981-1999 (only regulated streamflow data are available at this site)
	LIST OF TABLES
Table 1.	Summary of bull trout spawning surveys (redd counts) in index areas of the Yakima Core Area, 1984-2001 (Data provided by the Washington Department of Fish and Wildlife) 8